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ATE: Wednesday, October 01, 2003

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<i>DB=EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L7	l5 and L6	4
<input type="checkbox"/>	L6	equisimilis	42
<input type="checkbox"/>	L5	hyaluron\$5 adj4 (synthase or synthetase)	43
<i>DB=USOC; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L4	hyaluron\$5 adj4 (synthase or synthetase)	0
<i>DB=USPT; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L3	L2 same l1	5
<input type="checkbox"/>	L2	equisimilis	102
<input type="checkbox"/>	L1	hyaluron\$5 adj4 (synthase or synthetase)	37

ND OF SEARCH HISTORY

FILE 'REGISTRY' ENTERED AT 10:41:11 ON 01 OCT 2003
STRUCTURE FILE UPDATES: 29 SEP 2003 HIGHEST RN 595542-94-2
DICTIONARY FILE UPDATES: 29 SEP 2003 HIGHEST RN 595542-94-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

E1 1 MRTKLKMGUNLPKQSGSOEP
E2 1 MRTKLKSNPSYGDNLHLSASOEP
E3 0--> MRTKLKULTVAFSISOEP
E4 2 MRTKLKULTVAFSIFWLLVNVVYLFGAKGSLSYGFLIAYLVEMSLSFYKPFKGRAGQYKVAIIPSYNEDAESLLETLSVQQQTPYLAEIYVDDGSADETGIKRIEDVYRDTGDLSSNVVHR
SEKNOGRHAQAWAFERSDADVELTVDSOTYVPDAALEELKTENDPTVFAATGHLVNRNQTULLTRISOEP
E5 1 MRTKLKULTVAFSIFWLLVNVVYLFGAKGSLSYGFLIAYLVEMSLSFYKPFKGRAGQYKVAIIPSYNEDAESLLETLSVQQQTPYLAEIYVDDGSADETGIKRIEDVYRDTGDLSSNVVHR
SEKNOGRHAQAWAFERSDADVELTVDSOTYVPDAALEELKTENDPTVFAATGHLVNRNQTULLTRISOEP
E6 42 MRTKLKULTVAFSIFWLLVNVVYLFGAKGSLSYGFLIAYLVEMSLSFYKPFKGRAGQYKVAIIPSYNEDAESLLETLSVQQQTPYLAEIYVDDGSADETGIKRIEDVYRDTGDLSSNVVHR
SEKNOGRHAQAWAFERSDADVELTVDSOTYVPDAALEELKTENDPTVFAATGHLVNRNQTULLTRISOEP
E7 1 MRTKLKULTVAFSIFWLLVNVVYLFGAKGSLSYGFLIAYLVEMSLSFYKPFKGRAGQYKVAIIPSYNEDAESLLETLSVQQQTPYLAEIYVDDGSADETGIKRIEDVYRDTGDLSSNVVHR
SEKNOGRHAQAWAFERSDADVELTVDSOTYVPDAALEELKTENDPTVFAATGHLVNRNQTULLTRISOEP
E8 1 MRTKLKULTVAFSIFWLLVNVVYLFGAKGSLSYGFLIAYLVEMSLSFYKPFKGRAGQYKVAIIPSYNEDAESLLETLSVQQQTPYLAEIYVDDGSADETGIKRIEDVYRDTGDLSSNVVHR
SEKNOGRHAQAWAFERSDADVELTVDSOTYVPDAALEELKTENDPTVFAATGHLVNRNQTULLTRISOEP
E9 2 MRTKLKRPILLGAAMWLAIRALMLWILLTHERALLGRGVSEINLYRWYGLSHGYTPAGDHLWQYPPGAGPVLSPALLPALTYFOAFVWLTLLTDAVINMLFARAGTRPGGRSLHGAAL
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E10 1 MRTKLKILLWGAIVAGAGFVIAVLSOGETINAWILLVAACVAVAVAVRFFARKKFGLDNNROTIPATLTDNDKDYPTNKWVLFHHFAAAGAPLVGPLAAQMGVLPGTIWIIVGVVAGA
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E12 1 MRTKSLVNSAALLPFSATFAADAIQCEOPPPAPAEVIAPOGYSWAGGTGLYGVGNKKAKTSTVGSIKPDWKAGAFAGWNFQKQDIYVVEGDAGYSWAKSKDGLEIKQFEGSLGARVY
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L1 47 S MRTKLKULTVAFSISOEP

FILE 'CA' ENTERED AT 10:42:15 ON 01 OCT 2003
FILE COVERS 1907 - 25 Sep 2003 VOL 139 ISS 14
FILE LAST UPDATED: 25 Sep 2003 (20030925ED)

L2 5 S L1

L2 ANSWER 1 OF 5 CA COPYRIGHT 2003 ACS on STN
AN 13980194 CA
T1 Recombinant expression of bacterial hyaluronan synthase operon genes in *Bacillus* and hyaluronic acid production
IN Stora, Alan; Behr, Regine; Widner, William; Tang, Marie; Stenberg, David; Brown, Stephen
PA Novozymes Biotech, Inc., USA SO PCT Int. Appl., 218 pp. CODEN: PIXXD2
DT Patent LA English
FANCNT1 PATENT NO. KIND DATE APPLICATION NO. DATE
PI WO 2003054163 A2 20030703 WO 2002-US41067 20021220 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, AA, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2003175902 A1 20030918 US 2002-326185 20021220
PRAIUS 2001-342644 P 20011221

L2 ANSWER 2 OF 5 CA COPYRIGHT 2003 ACS on STN

AN 13949116 CA
T1 Hyaluronan synthase mutants with altered enzymic activities
IN Weigel, Paul H.; Kurnat, Kshama
PA USA
SO PCT Int. Appl., 363 pp. CODEN: PIXXD2
DT Patent
LA English
FANCNT12 PATENT NO. KIND DATE APPLICATION NO. DATE
PI WO 2003048330 A2 20030612 WO 2002-US8596 20021203 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AA, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2003175902 A1 20030918 US 2002-326185 20021220

A

KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, US 2003082780 A1 20030501 US 2001-11771 20011211
PRAI US 2001-336105P P 20011203 US 2001-11771 A2 20011211 US 1994-270581 B1 19940701 US 1997-64435P P 19971031 US 1998-146893 A2 19980903 US 1998-178851 B1 19981026 US 1999-469200 A1 19991221

L2 ANSWER 3 OF 5 CA COPYRIGHT 2003 ACS on STN
AN 138380406 CA

T1 Recombinant expression of bacterial hyaluronan synthase genes in *Bacillus* and hyaluronic acid production
IN Deangelis, Paul L.; Weigel, Paul H.; Kumari, Kshama

PA USA

SO U.S. Pat. Appl. Publ., 79 pp., Cont.-in-part of U.S. Ser. No. 469,200. CODEN: USXXCO

DT Patent

LA English

FAN CNT 12 PATENT NO. KIND DATE APPLICATION NO. DATE
PI US 2003092118 A1 20030515 US 2002-172527 20020613 US 2002160489 A1 20021031 US 2001-879959 20010912 US 2003073221 A1 20030417 US 2001-11768 20011211 WO 2003060063 A2 20030724 WO 2002-1518915 20020613 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, BG, BR, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2003113845 A1 20030619 US 2002-217613 MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2003113845 A1 20030619 US 2002-217613 20020812
PRAI US 1997-64435P P 19971031 US 1998-178851 B1 19981026 US 1999-469200 A2 19991221 US 2001-297744P P 20010613 US 2001-297788P P 20010613 US 1997-899040 B2 19970723 US 1999-283402 B1 19990401

L2 ANSWER 4 OF 5 CA COPYRIGHT 2003 ACS on STN
AN 130322336 CA

T1 A hyaluronan synthase gene of *Streptococcus equisimilis* and use of the enzyme in manufacture of hyaluronans
IN Weigel, Paul H.; Kumari, Kshama; Deangelis, Paul

PA The Board of Regents of the University of Oklahoma, USA

SO PCT Int. Appl., 125 pp. CODEN: PIXXD2

DT Patent

LA English

FAN CNT 12 PATENT NO. KIND DATE APPLICATION NO. DATE
PI WO 9923227 A2 19990514 WO 1998-US23153 19981030 WO 9923227 A3 19990819 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZM, ZW, AM, AZ, BY, BG, BR, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG CA 2307842 AA 19990514 CA 1998-2307842 19981030 AU 9913706 A1 19990524 AU 1999-13706 19981030 AU 762036 B2 20030619 EP 1025211 A2 20000809 EP 1998-957450 19981030 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI BR 9814834 A 20010717 BR 1998-14834 19981030 JP 2001521741 T2 20011113 JP 2000-519083 19981030 US 2002160489 A1 20021031 US 2001-879959 20010912 US 2003104533 A1 20030605 US 2002-117795 20020403 US 2003113845 A1 20030619 US 2002-217613 20020812
PRAI US 1997-899040 A 19970723 US 1997-64435P P 19971031 US 1998-178851 A 19981026 US 1994-270581 B1 19940701 WO 1998-US23153 W 19981030 US 1999-248309 B1 19990121 US 1999-283402 B1 19990401 US 1999-469200 A1 19991221 US 2000-559793 A1 20000427

L2 ANSWER 5 OF 5 CA COPYRIGHT 2003 ACS on STN
AN 128189737 CA

T1 Molecular cloning, expression, and characterization of the authentic hyaluronan synthase from group C *Streptococcus equisimilis*
AU Kumari, Kshama; Weigel, Paul H.

CS Department of Biochemistry and Molecular Biology, University of Oklahoma Health Sciences Center, Oklahoma City, OK, 73190, USA

SO Journal of Biological Chemistry (1997), 272(51), 32539-32546 CODEN: JBCHA3; ISSN: 0021-9258

PB American Society for Biochemistry and Molecular Biology

DT Journal

LA English

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